Establishing Operating Positions Checklist

Person	Shift: Time / Date (pots in/out):	
	!!!!!!!IF AT ANY TIME THERE IS A PROBLEM, TURN OFF ALL CONTROL LINES!!!!!!	
SETUI		
	Login to elogbook	
	Read: FPD Runplan on the web	
	Last 8 Days Entries to FPD elogbook (Entries from Last Pot Insertion at a Minimum)	
	[open in web browser, unselect INCLUDE_ALL, select FPD, change hours to d	lays]
	FPD Issues (<u>http://d0server1.fnal.gov/users/strang/web/fpd/documents/FPDIssues.txt</u>)	
	Be Familiar with Emergency Procedures to use during Pot Motion (see online checklist)	
	Verify Software is Running:Pot Motion,HV,Rate Watcher,SES alarm display,	
	Rack Environment Alarm Monitor, A/S on	
	Verify that ACNET is Setup Properly:FTP,C72,D44,Lumberjack.	
	Verify there are No Alarms in the SES display, if there are, attempt to clear them.	
	Ramp HV to 100 % for All L0 Trigger Tubes (if rates are not updating verify trigger is using generato	r signal)
	Create screen capture of D44 lumberjack screen showing normal rates for last store and put in elogboo	k.
	Create a screen capture of the FPD Runstate page (http://www-d0online.fnal.gov/fpd_run_state/)	
	If this page isn't accurate, make copies of the Beams Division notify webpage,	
	C72 page (halo rates) and FPDGui (singles rates) Notify Vladimir Sirotenko	
	Have Shift Captain Notify MCR and CDF that we are going to insert pots	
	Verify with Shift Captain that the Beam Spot at D0 has not significantly changed	
	Open expert mode of FPDGui and initialize halo viewer	
Dipole	sertion to establish operating positions (Start at Lum 40e30, End by Lum 30e30):	
	Setup camera to display dipole motors.	
	Setup D44 to display rates for dipole pots.	
	Turn on drivers in Pot Motion Software for dipole castle	
	Turn on A side control line.	
	Move D1 pot by itself in small, slow steps recording singles rate. As rate increases decrease step size. On	nce rate start
	loubling with a 0.1mm step stop insertion and record last position as operating position. (If you reach s	oftware limi
	pefore establishing position, increase limit by 1mm). Stop if single rates reach 450kHz.	
	BringD1 back to its starting position and repeat above step forD2.	
	Bring dipole pots home	
	Furn off dipole drivers	
	Furn off A side control lines	
A side	sertion to establish operating positions (Start at Lum 40e30, end by Lum 30e30):	
	Setup camera to display A vertical / horizontal motors.	
	Setup D44 to display A vertical rates and calculate a 50% increase of starting phalo rate for stopping co	ondition
	(maximum 6kHz)	
	Γurn on drivers in Pot Motion Software for A1 and A2	
П	Furn on A side control line	

	Move A1U by itself in small, slow steps recording singles rates and phalo. Stop if you reach your halo limit or if CDF		
	ahalo more than triples. As singles rate increases decrease step size. Once rate starts doubling with a 0.1mm step, stop		
	insertion and record last position as operating position (If you reach software limit before establishing position,		
	increase limit by 1mm). Stop if single rates reach 450kHz.		
	ReturnA1U to the starting position (home) and repeat forA1D,A2U,A2D		
	Bring A vertical pots home.		
	Setup D44 to display A horizontal rates and calculate 50% increase of starting phalo rate for stopping condition		
	Move A11 by itself in small, slow steps recording singles rates and phalo. Stop if you reach your halo limit or if CDF		
	ahalo more than triples. As singles rate increases decrease step size. Once rate starts doubling with a 0.1mm step, stop		
	insertion and record last position as operating position (If you reach software limit before establishing position,		
	increase limit by 1mm). Stop if single rates reach 450kHz.		
	ReturnA1I to the starting position and repeat forA1O,A2I,A2O		
	Bring A horizontal pots home		
	Turn off A side control line		
	Turn off A1 and A2 drivers		
P side	Insertion to establish operating positions (Start at Lum 40e30, end by Lum 30e30):		
	Setup camera to display P vertical / horizontal motors.		
	Setup D44 to display P vertical rates and calculate a 50% increase of starting ahalo rate for stopping condition		
	(maximum 2 kHz)		
	Turn on drivers in Pot Motion Software for P1 and P2		
	Turn on P side control line		
	Move P1U by itself in small, slow steps recording singles rates and ahalo. Stop if you reach your halo limit. As singles		
	rate increases decrease step size. Once rate starts doubling, stop insertion and record last position as operating		
	position (If you reach software limit before establishing position, increase limit by 1mm). Stop if single rates reach		
	450kHz.		
	ReturnP1U to the starting position and repeat forP1D,P2U,P2D		
	Bring P vertical pots home.		
	Setup D44 to display P horizontal rates and calculate 50% increase of starting ahalo rate for stopping condition		
	Move P1I by itself in small, slow steps recording singles rates and ahalo. Stop if you reach your halo limit. As singles		
	rate increases decrease step size. Once rate starts doubling with a 0.1mm step, stop insertion and record last position		
	as operating position (If you reach software limit before establishing position, increase limit by max 1mm). Stop if		
	single rates reach 450kHz.		
	ReturnP1I to the starting position and repeat forP1O,P2I,P2O		
	Bring P horizontal pots home		
	Turn off P side control line		
	Turn off P1 and P2 drivers		
Standb	y		
	If you had to change any software limits, make sure they have all been reset to the green values of the existing insertion table.		
	THIS IS EXTERMELY IMPORTANT		
	Close Expert mode of FPDGui.		
	Iris off the cameras		
	Make sure all drivers, control lines are off and HVs are ramped down to standby		
	Send mail to d0fpd local@fnal.gov with a summary of the insertion.		

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